AMENDMENTS TO THE CLAIMS

- 1. (Canceled)
- 2. (Currently Amended) The fluorocarbon emulsion according to claim [[25]] 24, further comprising 2 40% by vol. of the plurality of perfluorocarbon compounds.
- 3. (Currently Amended) The fluorocarbon emulsion according to claim [[25]] <u>24</u>, wherein a composition of rapidly eliminated <u>perfluorocarbon compounds contains perfluorodecaline and perfluorooctylbromide in a ratio between 10:1 and 1:10.</u>
- 4. (Currently Amended) The fluorocarbon emulsion according to claim [[25]] 24, wherein the perfluorocarbon supplement contains 1 to 50% of a total content of a composition of rapidly eliminated perfluorocarbon compounds.
- 5. (Currently Amended) The fluorocarbon emulsion according to claim [[25]] 27, wherein the mixture of perfluorinated tertiary amines eontains a mixture of perfluorotripropylamine and coproducts thereof, including

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<u>comprises</u> cis- und trans-isomers of perfluoro-1-propyl-3,4-dimethylpyrrolidone and perfluoro-1-propyl-4-methylpiperidine.

- 6. (Previously Presented) The fluorocarbon emulsion according to claim 5, wherein the mixture of perfluorinated tertiary amines contains in addition perfluoro-N-methylcyclohexylpiperidine and coproducts thereof.
- 7. (Previously Presented) The fluorocarbon emulsion according to claim 24, further comprising the phospholipid dispersion in the watersalt medium in a concentration of 0.2 to 5% by weight.
- 8. (Previously Presented) The fluorocarbon emulsion according to claim 24, wherein the phospholipid dispersion in the water-salt medium contains one of egg phospholipids, soya phospholipids, phospholipids or a mixture thereof.
- 9. (Previously Presented) The fluorocarbon emulsion according to claim 24, wherein the phospholipid dispersion in the water-salt medium contains as adjuvant vegetable oil in a quantity of 1 15% of the total content of the phospholipids.

- 10. (Previously Presented) The fluorocarbon emulsion according to claim 9, wherein soya oil serves as adjuvant.
- 11. (Previously Presented) The fluorocarbon emulsion according to claim 9, wherein sunflower seed oil serves as adjuvant.
- 12. (Previously Presented) The fluorocarbon emulsion according to claim 9, wherein ricinus oil serves as adjuvant.
- 13. (Previously Presented) The fluorocarbon emulsion according to claim 9, wherein a mixture of the oils in an effective ratio in a form of one of a twofold mixture and a threefold mixture serves as adjuvant.
- 14. (Previously Presented) The fluorocarbon emulsion according to claim 24, wherein the composition of the water-salt medium contains sodium salts and potassium salts of chlorides and phosphates and the monosaccharide mannitol in injection water.
- 15. (Previously Presented) The fluorocarbon emulsion according to claim 24, wherein a concentration of components in the water-salt medium has an osmotic pressure in the range of 100 350 mosmol/l.

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- 16. (Previously Presented) The fluorocarbon emulsion according to claim 15, wherein a mean particle size is equal to or less than 0.2 μ m and is in a range of 0.06 0.2 μ m.
- 17. (Withdrawn Currently Amended) A method for producing a fluorocarbon emulsion according to Claim 24, the method comprising: a first step of producing a phospholipid dispersion in a water-salt medium, a second step of homogenization of the perfluorocarbon compounds in the phospholipid dispersion, a third step of heat sterilization of the produced emulsion, and a fourth step of subsequent storage of at least 6 months in a non-frozen state at a temperature of +4°C.
- 18. (Withdrawn) The method according to claim 17, wherein the phospholipid dispersion in the water-salt medium is produced by homogenization at a high pressure of at least 100 atm with subsequent heat sterilization.

Claims 19-21. (Canceled)

22. (Currently Amended) The fluorocarbon emulsion according to claim [[25]] 24, wherein the mixture of perfluorinated tertiary amines

contains in addition perfluoro-N-methylcyclohexylpiperidine and coproducts thereof.

- 23. (Currently Amended) The fluorocarbon emulsion according to claim 24, wherein a mean particle size is equal to or less than 0.2 μ m and is in a range of 0.06 0.2 μ m.
- 24. (Currently Amended) A fluorocarbon emulsion for medicinal purposes, comprising:

a water-salt medium;

a phospholipid emulsifier dispersed dispersion in the water-salt medium; and

a <u>plurality of perfluorocarbon compounds</u> homogenized with the phospholipid dispersion, the <u>plurality of perfluorocarbon compounds including a composition of perfluorodecaline and perfluorocarbon supplement including a mixture of <u>perfluorinated tertiary amines</u>.</u>

25. (Canceled)

26. (New) The fluorocarbon emulsion according to claim 24, wherein the emulsion has a mean particle size in a range of $0.06-0.2~\mu m$ upon storage of at least six months in a non-frozen state at a temperature of +4°C .

27. (New) The fluorocarbon emulsion according to claim 24, wherein the mixture of perfluorinated tertiary amines contains a mixture of perfluorotripropylamine and coproducts thereof.

28. (New) The fluorocarbon emulsion according to claim 27, wherein the mixture of perfluorinated tertiary amines further comprises perfluoro-N-methylcyclohexylpiperidine and coproducts thereof.